



S A M P L E N U M B E R

CHEMICAL (ug/l) MW-001 MW-002

CHEMICAL (ug/l)	MW-001	MW-002
1,1,1-Trichloroethane	REMCOR NUS-CLP	REMCOR NUS-CLP
Trichloroethene	ND	ND
1,1-Dichloroethene	ND	ND
1,1-Dichloroethane	ND	ND
Tetrachloroethene	ND	ND

CHEMICAL (ug/l) MW-055 MW-050 MW-071 MW-091 MW-115 MW-111

CHEMICAL (ug/l)	MW-055	MW-050	MW-071	MW-091	MW-115	MW-111
1,1,1-Trichloroethane	REMCOR NUS-CLP					
Trichloroethene	ND	ND	47	ND	3J	ND
1,1-Dichloroethene	ND	ND	15	ND	7	ND
1,1-Dichloroethane	ND	ND	14	ND	ND	ND
Methylene Chloride	ND	2J	3J	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND

AR3000-1-1

S	A	M	P	L	E	N	U	H	B	E	R		
												REMCOR	NUS-CLP
SS1-002	2.0-4.0	SS1-003	4.0-6.0	SS2-004	6.0-8.0	SS3-005	7.0-9.5	SS9-001	4.0-6.0	SS9-001A	4.0-6.0	SS11-001	3.8-5.0
REMCOR	NUS-CLP	REMCOR	NUS-CLP	REMCOR	NUS-CLP	REMCOR	NUS-CLP	REMCOR	NUS-CLP	REMCOR	NUS-CLP	REMCOR	NUS-CLP
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6	ND
1,1,1-Trichloroethane												8	ND
Trichloroethene												43	ND
Toluene												ND	ND
Methylene Chloride												ND	ND
Acetone												ND	ND

S	A	M	P	L	E	N	U	H	B	E	R
SS11-002	7.0-9.0	SS12-002	3.0-5.0	SS12-003	5.0-7.0						
REMCOR	NUS-CLP	REMCOR	NUS-CLP	REMCOR	NUS-CLP						
13	ND	ND	ND	ND	ND						
1,1,1-Trichloroethane											
Trichloroethene											
Toluene											
Methylene Chloride											
Acetone											

AR301012

BALLY SITE

<u>Case #</u>	<u>Laboratory</u>	<u>Analysis</u>	<u># of Samples</u>
8534	Aquatec	VOA	7

201013  
AR301013



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION III  
CENTRAL REGIONAL LABORATORY  
836 BESTGATE ROAD  
ANNAPOLIS, MARYLAND 21401  
(301) 266-9180

DATE : OCT 28 1988

SUBJECT: Region III CLP Data QA Review

FROM : Patricia J. Krantz (3ES23) *BJW*  
Chief, Quality Assurance, Region III

TO : Carla Dempsey (OS-230)  
QAO, AOB

Attached is a Region III CLP Data Review done by reviewers under the REM III contract:

Case No.: 8534  
Sitename: Bally Area Site  
Laboratory: AQUAI  
Reviewer: D. Scheib / NUS - Pittsburgh

Attachment

cc: EPA Site RPM  
Gareth Pearson, EMSL-LV  
Regional DPO: Carol Wood Region I

*Jeff Orent*

AR301014 801014

**DATA VALIDATION EVALUATION CHECKLIST**

Case/SAS Number: 5534 Site Name: BALLY  
 Assignment #: 79-3625 Revision Number: 1 Analysis Type: ORGANIC (NOA ONLY)  
 Reviewer: D. SCHEIB Contractor: NUS/FGH SOW #: 787  
 Analytical Laboratory: AQUATEC  
 Information request date: \_\_\_\_\_ Information received date: \_\_\_\_\_  
 Date submitted to EPA: \_\_\_\_\_  
 EPA DPO: S. DELRE Number of hours spent on review: 10  
 EPA RPM: P. TAN Number of samples: 7  
 cc: \_\_\_\_\_

<u>CRITERIA</u>	<u>YES</u>	<u>NO</u>	<u>COMMENTS</u>
Format according to Region III protocol	✓		
Clarity of report	✓		
Qualifiers applied correctly	✓		
Consistency between narrative, data summary form(s), and DPO report	✓		
Error-free transcription	✓		

<u>EFFICIENCY OF CONTRACTOR</u>	<u>YES</u>	<u>NO</u>	<u>COMMENTS</u>
Approval recommended for current submission	✓		
Time spent on review is reasonable	✓		

ESD OVERSIGHT

<u>DATES</u>	<u>AFC/DPO</u>	<u>MONITOR/EVALUATOR</u>	<u>ESAT</u>
Received at EPA	<u>OCT 14 1988</u>	<u>JVS</u>	
Oversight assigned	<u>OCT 17 1988</u>		
Oversight rec'd by TM		<del>OCT 17 1988</del>	<u>Revel 10/11/88</u>
Oversight complete		<u>10/14/88</u>	
Feedback given	<u>OCT 28 1988</u>		
Mailed to RPM			

Attachment(s), check if applicable: cover memo \_\_\_\_\_ phone log \_\_\_\_\_ comments \_\_\_\_\_

cc: Patricia J. Krantz

AR301015

801015  
revised 08/88

**DATA VALIDATION EVALUATION CHECKLIST**

11/25  
*[Signature]*

Case/SAS Number: 8534 Site Name: BALLY  
 Revision Number: 0 Analysis Type: ORGANIC (JOA ONLY)  
 Reviewer/Co.: D. SCHEIB / NOD - PGH SON #: 787  
 Date submitted to EPA: 6/17/88 Date received at EPA: JUN 21 1988  
 Information request date: \_\_\_\_\_  
 Information received date: \_\_\_\_\_ # of hours spent on review: 9.0  
 EPA RPM/DPO: S. DEL RE  
 Site Project Officer: \_\_\_\_\_

CRITERIA	YES	NO	COMMENTS
Completeness	<input checked="" type="checkbox"/>	<input type="checkbox"/>	submit copy of DPO Report to Larry P.H.S.
Format according to Region III protocol	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Clarity of report	<input type="checkbox"/>	<input checked="" type="checkbox"/>	See comment below
Qualifiers applied correctly	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Consistency between narrative, data summary form(s), and DPO report	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Why do the Data Summary Forms indicate no detection of methylene chloride for CH700 when 45 ppb was reported on Form I? This is also not reported on Table I.
Transcription errors	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>CORRECTED IN NARRATIVE AND TABLE I</u>

EFFICIENCY OF CONTRACTOR	YES	NO	COMMENTS
Approval recommended for current submission	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Previously noted discrepancies corrected	<input type="checkbox"/>	<input type="checkbox"/>	
Time spent on review is reasonable	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

**ESD OVERSIGHT**

Reviewed by: John Scalera  
 Date oversight assigned: 7-1-88  
 Date oversight complete: 9/6/88  
 Date feedback given: 9/1/88

Attachment(s), check if applicable: phone log \_\_\_\_\_ letter \_\_\_\_\_  
 comments \_\_\_\_\_

cc: Patricia J. Krantz

AR301016

200016



PARK WEST TWO  
CLIFF MINE ROAD  
PITTSBURGH, PA 15275-1071  
(412) 788-1080

September 26, 1988  
NUSP/88-0719  
No Response Required

Mr. Richard C Evans  
Ebasco Services Incorporated  
One Oxford Valley  
2300 Lincoln Highway, East  
Suite 414  
Langhorne, PA 19047

SUBJECT: REM III PROGRAM, EPA CONTRACT NO. 68-01-7250  
ORGANIC DATA VALIDATION, CASE NO. 8534  
BALLY SITE

Dear Mr. Evans:

OVERVIEW

The sample set for Case 8534 contained a total of seven (7) soil matrix samples analyzed for volatile organic (VOA) analysis only. Also included in the sample set are one field blank and one identified duplicate pair. All samples received low-level analysis and were analyzed through the Contract Laboratory Program (CLP) Routine Analytical Services.

SUMMARY

All compounds were successfully analyzed. The findings offered in this report are based upon a general review of all available data, including blank analysis results, duplicate analysis results, target compound matching quality, surrogate and matrix spike recoveries, and chromatograms. Areas of concern with respect to data usability are categorized below.

Minor Issues

- Methylene chloride, acetone and 2-butanone contaminants were found in the blanks. Consequently, the results of these compounds reported in the sample below 10 times the same analyte concentration found in the blank, have been qualified with "B".
- Due to a high percent Difference (%D>25) between initial and continuing calibrations, the Detection Limits (DL) and positive results for chloromethane, methylene chloride, acetone, dibromochloromethane and bromoform

301017

AR301017

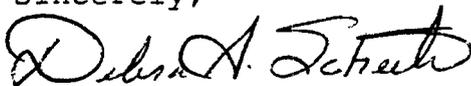
September 26, 1988  
NUSP/88-0719  
Page 2

have been qualified as estimated "UJ" and "J", respectively.

Note

All data were reviewed according to the National Functional Guidelines for Evaluating Organic Analyses. The text of this report has been formulated to address only those problem areas affecting data usability.

Sincerely,



Debra A Scheib  
Chemist

Approved for submission,



Jeffrey P Orient  
Site Manager

DAS/kjb

Attachments:

1. Glossary of data qualifier codes.
2. Table A - Data Summary. This summary includes all positive results for the target analytes with qualifier codes, if applicable.
3. Appendix A - Results as reported by the laboratory for all target analytes.
4. Appendix B - Results of all tentatively identified compounds (TIC), which have been corrected to exclude method artifacts and laboratory contaminants.
5. Appendix C - DPO Report addresses laboratory compliance to the Statement of Work.
6. Appendix D - Support Documentation includes details to support the statements in this report.

cc: G Zimmerman  
L Pitts  
L Johnson (w/o attachments)  
File: Bally (Y798/541)  
Daily

801018  
AR301018

TABLE 1

CASE NO. 8534  
SUMMARY OF QUALIFIERS ON DATA SUMMARY AFTER DATA VALIDATION  
BALLY SITE

Analyte	Samples Affected	Qualifier		Bias	Comments
		Positive Values	Negative Values		
methylene chloride	all samples CM700	B<450 µg/kg J			(1) (2)
acetone	all samples CM700	B<70 µg/kg	UJ		(1) (2)
chloromethane	CM702, CM705, CM706		UJ		(2)
dibromochloromethane	CM702, CM705, CM706		UJ		(2)
bromoform	CM702, CM705, CM706		UJ		(2)

- (1) Compounds present in the blank.  
(2) Percent Difference (%D >25) in the continuing calibration.

AR301019

801019

DATA VALIDATION EVALUATION CHECKLIST

Case/SAS Number: 8534 Site Name: BALLY  
 Assignment #: 79-3655 Revision Number: 1 Analysis Type: ORGANIC (VOA ONLY)  
 Reviewer: D. SCHEIB Contractor: NUS/PGH SOW #: 787  
 Analytical Laboratory: AQUATEC  
 Information request date: \_\_\_\_\_ Information received date: \_\_\_\_\_  
 Date submitted to EPA: \_\_\_\_\_  
 EPA DPO: S. DELRE Number of hours spent on review: 10  
 EPA RPM: P. TAN Number of samples: 7  
 cc: \_\_\_\_\_

<u>CRITERIA</u>	<u>YES</u>	<u>NO</u>	<u>COMMENTS</u>
Format according to Region III protocol	_____	_____	_____
Clarity of report	_____	_____	_____
Qualifiers applied correctly	_____	_____	_____
Consistency between narrative, data summary form(s), and DPO report	_____	_____	_____
Error-free transcription	_____	_____	_____

<u>EFFICIENCY OF CONTRACTOR</u>	<u>YES</u>	<u>NO</u>	<u>COMMENTS</u>
Approval recommended for current submission	_____	_____	_____
Time spent on review is reasonable	_____	_____	_____

ESD OVERSIGHT

<u>DATES</u>	<u>AFC/DPO</u>	<u>MONITOR/EVALUATOR</u>	<u>ESAT</u>
Received at EPA	_____	_____	_____
Oversight assigned	_____	_____	_____
Oversight rec'd by TM	_____	_____	_____
Oversight complete	_____	_____	_____
Feedback given	_____	_____	_____
Mailed to RPM	_____	_____	_____

Attachment(s), check if applicable: cover memo \_\_\_\_\_ phone log \_\_\_\_\_ comments \_\_\_\_\_

cc: Patricia J. Krantz

AR301020

revised 08/88

801020

## GLOSSARY OF DATA QUALIFIER CODES (ORGANIC)

### CODES RELATING TO IDENTIFICATION

(confidence concerning presence or absence of compounds):

U - Not detected. The associated number indicates approximate sample concentration necessary to be detected.

(NO CODE) - Confirmed identification.

B - Not detected substantially above the level reported in laboratory or field blanks.

R - Unreliable result. Analyte may or may not be present in the sample. Supporting data necessary to confirm result.

N - Tentative identification. Consider present. Special methods may be needed to confirm its presence or absence in future sampling efforts.

### CODES RELATED TO QUANTITATION

(can be used for both positive results and sample quantitation limits):

J - Analyte present. Reported value may not be accurate or precise.

K - Analyte present. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

UJ - Not detected. Quantitation limit may be inaccurate or imprecise.

UL - Not detected. Quantitation limit is probably higher.

### OTHER CODES

Q - No analytical result.

AR301021

000001

TABLE A - DATA SUMMARY

AR301022

801032



Case Number: 8534  
 Site Name: Bally  
 Date of Sampling: 4/5 - 4/2/88

SOIL SAMPLES  
 (ug/kg)  
 To calculate sample quantitation limits  
 (CRL = Dilution Factor) / ((100 - % Moisture)/100)  
 SEE GLOSSARY FOR CODE DEFINITIONS

CRCL #	COMPOUND	Sample No. Dilution Factor & Moisture	Location	CM700	CM701	CM702	CM703	CM704	CM705	CM706
5	Bromoform									
10	4-Methyl-2-pentanone									
10	2-Hexanone									
5	TETRACHLOROETHENE									
5	1,1,2,2-Tetrachloroethane									
5	TOLUENE									
5	Chlorobenzene									
5	METHYLBENZENE									
5	STYRENE									
5	TOTAL XYLENES									
330	Phenol									
330	bis(2-Chloroethyl) ether									
330	2-Chlorophenol									
330	m 1,3-DICHLOROBENZENE									
330	m 1,4-DICHLOROBENZENE									
330	Benzyl Alcohol									
330	1,2-Dichlorobenzene									
330	2-Methylphenol									
	bis(2-Chloroisopropyl) ether									
	1-Methylphenol									
	1-Nitroso-di-n-propylamine									
	Hexachloroethane									
	nitrobenzene									
	sophorone									
	1-Nitrophenol									

*none detected*



301024

CRCL = Contract Required Quantitation Limit

\* Reaction Level Exists

**APPENDIX A**

**RESULTS AS REPORTED BY THE LABORATORY FOR ALL TARGET ANALYTES**

AR301025 801025

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CM700

Lab Name: AQUATEC, INC.

Contract: 68-01-7426

Lab Code: AQUAI

Case No.: 8534

SAS No.: \_\_\_\_\_

SDG No.: CM700

Matrix: (soil/water)SOIL

Lab Sample ID: \_\_\_\_\_

Sample wt/vol: 2.3 (g/mL) G

Lab File ID: C77530V

Level: (low/med) LOW

Date Received: 11/19/87

% Moisture: not dec.41

Date Analyzed: 11/19/87

Column: (pack/cap) PACK

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)UG/KG	Q
74-87-3	Chloromethane	38	U
74-83-9	Bromomethane	38	U
75-01-4	Vinyl Chloride	38	U
75-00-3	Chloroethane	38	U
75-09-2	Methylene Chloride	45	B
67-64-1	Acetone	38	U
75-15-0	Carbon Disulfide	19	U
75-35-4	1,1-Dichloroethene	19	U
75-34-3	1,1-Dichloroethane	19	U
540-59-0	1,2-Dichloroethene (total)	19	U
67-66-3	Chloroform	19	U
107-06-2	1,2-Dichloroethane	19	U
78-93-3	2-Butanone	38	U
71-55-6	1,1,1-Trichloroethane	19	U
56-23-5	Carbon Tetrachloride	19	U
108-05-4	Vinyl Acetate	38	U
75-27-4	Bromodichloromethane	19	U
78-87-5	1,2-Dichloropropane	19	U
10061-01-5	cis-1,3-Dichloropropene	19	U
79-01-6	Trichloroethene	19	U
124-48-1	Dibromochloromethane	19	U
79-00-5	1,1,2-Trichloroethane	19	U
71-43-2	Benzene	19	U
10061-02-6	trans-1,3-Dichloropropene	19	U
75-25-2	Bromoform	19	U
108-10-1	4-Methyl-2-Pentanone	38	U
591-78-6	2-Hexanone	38	U
127-18-4	Tetrachloroethene	19	U
79-34-5	1,1,2,2-Tetrachloroethane	19	U
108-88-3	Toluene	19	U
108-90-7	Chlorobenzene	19	U
100-41-4	Ethylbenzene	19	U
100-42-5	Styrene	19	U
1330-20-7	Xylene (total)	19	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CM701

Lab Name: AQUATEC, INC.

Contract: 68-01-7426

Lab Code: AQUAI

Case No.: 8534

SAS No.: \_\_\_\_\_

SDG No.: CM700

Matrix: (soil/water)SOIL

Lab Sample ID: \_\_\_\_\_

Sample wt/vol: 2.2 (g/mL) G

Lab File ID: C77531V

Level: (low/med) LOW

Date Received: 11/19/87

% Moisture: not dec.14

Date Analyzed: 11/19/87

Column: (pack/cap) PACK

Dilution Factor: 1

CONCENTRATION UNITS:  
(ug/L or ug/Kg)UG/KG

CAS NO.

COMPOUND

Q

74-87-3	Chloromethane	26	U
74-83-9	Bromomethane	26	U
75-01-4	Vinyl Chloride	26	U
75-00-3	Chloroethane	26	U
75-09-2	Methylene Chloride	29	B
67-64-1	Acetone	10	BJ
75-15-0	Carbon Disulfide	13	U
75-35-4	1,1-Dichloroethene	13	U
75-34-3	1,1-Dichloroethane	13	U
540-59-0	1,2-Dichloroethene (total)	13	U
67-66-3	Chloroform	13	U
107-06-2	1,2-Dichloroethane	13	U
78-93-3	2-Butanone	26	U
71-55-6	1,1,1-Trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
108-05-4	Vinyl Acetate	26	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-Dichloropropane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
79-01-6	Trichloroethene	13	U
124-48-1	Dibromochloromethane	13	U
79-00-5	1,1,2-Trichloroethane	13	U
71-43-2	Benzene	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
75-25-2	Bromoform	13	U
108-10-1	4-Methyl-2-Pentanone	26	U
591-78-6	2-Hexanone	26	U
127-18-4	Tetrachloroethene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
108-88-3	Toluene	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
1330-20-7	Xylene (total)	13	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CM702

Lab Name: AQUATEC, INC.

Contract: 68-01-7426

Lab Code: AQUAI

Case No.: 8534

SAS No.: \_\_\_\_\_

SDG No.: CM700

Matrix: (soil/water)SOIL

Lab Sample ID: \_\_\_\_\_

Sample wt/vol: 2.9 (g/mL) G

Lab File ID: C77532I2V

Level: (low/med) LOW

Date Received: 11/19/87

% Moisture: not dec.15

Date Analyzed: 11/20/87

Column: (pack/cap) PACK

Dilution Factor: 1

CONCENTRATION UNITS:  
(ug/L or ug/Kg)UG/KG

CAS NO.

COMPOUND

Q

74-87-3-----	Chloromethane	20	U
74-83-9-----	Bromomethane	20	U
75-01-4-----	Vinyl Chloride	20	U
75-00-3-----	Chloroethane	20	U
75-09-2-----	Methylene Chloride	8	BJ
67-64-1-----	Acetone	6	BJ
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethane	10	U
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	10	U
78-93-3-----	2-Butanone	20	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
108-05-4-----	Vinyl Acetate	20	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	10	U
124-48-1-----	Dibromochloromethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	10	U
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-Pentanone	20	U
591-78-6-----	2-Hexanone	20	U
127-18-4-----	Tetrachloroethene	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-88-3-----	Toluene	10	U
108-90-7-----	Chlorobenzene	10	U
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylene (total)	10	U

001028

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CM703

Lab Name: AQUATEC, INC.

Contract: 68-01-7426

Lab Code: AQUAI

Case No.: 8534

SAS No.:

SDG No.: CM700

Matrix: (soil/water)SOIL

Lab Sample ID:

Sample wt/vol: 2.0 (g/mL) G

Lab File ID: C77533V

Level: (low/med) LOW

Date Received: 11/19/87

% Moisture: not dec.16

Date Analyzed: 11/20/87

Column: (pack/cap) PACK

Dilution Factor: 1

CAS NO.                      COMPOUND                      CONCENTRATION UNITS:  
(ug/L or ug/Kg)UG/KG                      Q

74-87-3	Chloromethane	29	U
74-83-9	Bromomethane	29	U
75-01-4	Vinyl Chloride	29	U
75-00-3	Chloroethane	29	U
75-09-2	Methylene Chloride	22	B
67-64-1	Acetone	10	BJ
75-15-0	Carbon Disulfide	15	U
75-35-4	1,1-Dichloroethene	15	U
75-34-3	1,1-Dichloroethane	15	U
540-59-0	1,2-Dichloroethene (total)	15	U
67-66-3	Chloroform	6	J
107-06-2	1,2-Dichloroethane	15	U
78-93-3	2-Butanone	29	U
71-55-6	1,1,1-Trichloroethane	15	U
56-23-5	Carbon Tetrachloride	15	U
108-05-4	Vinyl Acetate	29	U
75-27-4	Bromodichloromethane	15	U
78-87-5	1,2-Dichloropropane	15	U
10061-01-5	cis-1,3-Dichloropropene	15	U
79-01-6	Trichloroethene	15	U
124-48-1	Dibromochloromethane	15	U
79-00-5	1,1,2-Trichloroethane	15	U
71-43-2	Benzene	15	U
10061-02-6	trans-1,3-Dichloropropene	15	U
75-25-2	Bromoform	15	U
108-10-1	4-Methyl-2-Pentanone	29	U
591-78-6	2-Hexanone	29	U
127-18-4	Tetrachloroethene	15	U
79-34-5	1,1,2,2-Tetrachloroethane	15	U
108-88-3	Toluene	15	U
108-90-7	Chlorobenzene	15	U
100-41-4	Ethylbenzene	15	U
100-42-5	Styrene	15	U
1330-20-7	Xylene (total)	15	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CM704

Lab Name: AQUATEC, INC.

Contract: 68-01-7426

Lab Code: AQUAI

Case No.: 8534

SAS No.: \_\_\_\_\_

SDG No.: CM700

Matrix: (soil/water)SOIL

Lab Sample ID: \_\_\_\_\_

Sample wt/vol: 2.4 (g/mL) G

Lab File ID: C77534V

Level: (low/med) LOW

Date Received: 11/19/87

% Moisture: not dec.15

Date Analyzed: 11/20/87

Column: (pack/cap) PACK

Dilution Factor: 1

CONCENTRATION UNITS:  
(ug/L or ug/Kg)UG/KG

CAS NO.

COMPOUND

Q

74-87-3-----	Chloromethane	24	U
74-83-9-----	Bromomethane	24	U
75-01-4-----	Vinyl Chloride	24	U
75-00-3-----	Chloroethane	24	U
75-09-2-----	Methylene Chloride	14	B
67-64-1-----	Acetone	7	BJ
75-15-0-----	Carbon Disulfide	12	U
75-35-4-----	1,1-Dichloroethene	12	U
75-34-3-----	1,1-Dichloroethane	12	U
540-59-0-----	1,2-Dichloroethene (total)	12	U
67-66-3-----	Chloroform	12	U
107-06-2-----	1,2-Dichloroethane	12	U
78-93-3-----	2-Butanone	24	U
71-55-6-----	1,1,1-Trichloroethane	12	U
56-23-5-----	Carbon Tetrachloride	12	U
108-05-4-----	Vinyl Acetate	24	U
75-27-4-----	Bromodichloromethane	12	U
78-87-5-----	1,2-Dichloropropane	12	U
10061-01-5-----	cis-1,3-Dichloropropene	12	U
79-01-6-----	Trichloroethene	12	U
124-48-1-----	Dibromochloromethane	12	U
79-00-5-----	1,1,2-Trichloroethane	12	U
71-43-2-----	Benzene	12	U
10061-02-6-----	trans-1,3-Dichloropropene	12	U
75-25-2-----	Bromoform	12	U
108-10-1-----	4-Methyl-2-Pentanone	24	U
591-78-6-----	2-Hexanone	24	U
127-18-4-----	Tetrachloroethene	12	U
79-34-5-----	1,1,2,2-Tetrachloroethane	12	U
108-88-3-----	Toluene	12	U
108-90-7-----	Chlorobenzene	12	U
100-41-4-----	Ethylbenzene	12	U
100-42-5-----	Styrene	12	U
1330-20-7-----	Xylene (total)	12	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CM705

Lab Name: AQUATEC, INC.

Contract: 68-01-7426

Lab Code: AQUAI

Case No.: 8534

SAS No.: \_\_\_\_\_

SDG No.: CM700

Matrix: (soil/water)SOIL

Lab Sample ID: \_\_\_\_\_

Sample wt/vol: 2.6 (g/mL) G

Lab File ID: C77535V

Level: (low/med) LOW

Date Received: 11/19/87

% Moisture: not dec.14

Date Analyzed: 11/20/87

Column: (pack/cap) PACK

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)UG/KG	Q
---------	----------	--	---

74-87-3	Chloromethane	23	U
74-83-9	Bromomethane	23	U
75-01-4	Vinyl Chloride	23	U
75-00-3	Chloroethane	23	U
75-09-2	Methylene Chloride	8	BJ
67-64-1	Acetone	9	BJ
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	32	
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	23	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
108-05-4	Vinyl Acetate	23	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	23	U
591-78-6	2-Hexanone	23	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CM706

Name: AQUATEC, INC.

Contract: 68-01-7426

Lab Code: AQUAI

Case No.: 8534

SAS No.: \_\_\_\_\_

SDG No.: CM700

Matrix: (soil/water)SOIL

Lab Sample ID: \_\_\_\_\_

Sample wt/vol: 2.8 (g/mL) G

Lab File ID: C77536V

Level: (low/med) LOW

Date Received: 11/19/87

% Moisture: not dec.10

Date Analyzed: 11/20/87

Column: (pack/cap) PACK

Dilution Factor: 1

CONCENTRATION UNITS:  
(ug/L or ug/Kg)UG/KG

CAS NO.

COMPOUND

Q

74-87-3	Chloromethane	20	U
74-83-9	Bromomethane	20	U
75-01-4	Vinyl Chloride	20	U
75-00-3	Chloroethane	20	U
75-09-2	Methylene Chloride	8	BJ
67-64-1	Acetone	6	BJ
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	20	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
108-05-4	Vinyl Acetate	20	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	20	U
591-78-6	2-Hexanone	20	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

APPENDIX B

RESULTS OF ALL TENTATIVELY IDENTIFIED COMPOUNDS (TIC)

801033  
AR301033

1E  
**VOLATILE ORGANICS ANALYSIS DATA SHEET**  
**TENTATIVELY IDENTIFIED COMPOUNDS**

EPA SAMPLE NO.

CM700

Name: AQUATEC, INC.

Contract: 68-01-7426

Lab Code: AQUAI

Case No.: 8534

SAS No.: \_\_\_\_\_

SDG No.: CM700

Matrix: (soil/water)SOIL

Lab Sample ID: \_\_\_\_\_

Sample wt/vol: 2.3 (g/mL) G

Lab File ID: C77530V

Level: (low/med) LOW

Date Received: 11/19/87

% Moisture: not dec.41

Date Analyzed: 11/19/87

Column: (pack/cap) PACK

Dilution Factor: 1

Number TICs found: 0

CONCENTRATION UNITS:  
 (ug/L or ug/Kg)UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1E  
**VOLATILE ORGANICS ANALYSIS DATA SHEET**  
**TENTATIVELY IDENTIFIED COMPOUNDS**

EPA SAMPLE NO.

CM701

Client Name: AQUATEC, INC.

Contract: 68-01-7426

Lab Code: AQUAI

Case No.: 8534

SAS No.: \_\_\_\_\_

SDG No.: CM700

Matrix: (soil/water)SOIL

Lab Sample ID: \_\_\_\_\_

Sample wt/vol: 2.2 (g/mL) G

Lab File ID: C77531V

Level: (low/med) LOW

Date Received: 11/19/87

% Moisture: not dec.14

Date Analyzed: 11/19/87

Column: (pack/cap) PACK

Dilution Factor: 1

CONCENTRATION UNITS:  
 (ug/L or ug/Kg)UG/KG

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CM702

Lab Name: AQUATEC, INC.

Contract: 68-01-7426

Lab Code: AQUAI

Case No.: 8534

SAS No.: \_\_\_\_\_

SDG No.: CM700

Matrix: (soil/water)SOIL

Lab Sample ID: \_\_\_\_\_

Sample wt/vol: 2.9 (g/mL) G

Lab File ID: C77532I2V

Level: (low/med) LOW

Date Received: 11/19/87

% Moisture: not dec.15

Date Analyzed: 11/20/87

Column: (pack/cap) PACK

Dilution Factor: 1

Number TICs found: 0

CONCENTRATION UNITS:  
(ug/L or ug/Kg)UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

801000

AR301036

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CM703

Name: AQUATEC, INC.

Contract: 68-01-7426

Lab Code: AQUAI

Case No.: 8534

SAS No.: \_\_\_\_\_

SDG No.: CM700

Matrix: (soil/water)SOIL

Lab Sample ID: \_\_\_\_\_

Sample wt/vol: 2.0 (g/mL) G

Lab File ID: C77533V

Level: (low/med) LOW

Date Received: 11/19/87

% Moisture: not dec.16

Date Analyzed: 11/20/87

Column: (pack/cap) PACK

Dilution Factor: 1

CONCENTRATION UNITS:  
(ug/L or ug/Kg)UG/KG

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CM704

Client Name: AQUATEC, INC.

Contract: 68-01-7426

Lab Code: AQUAI

Case No.: 8534

SAS No.: \_\_\_\_\_

SDG No.: CM700

Matrix: (soil/water)SOIL

Lab Sample ID: \_\_\_\_\_

Sample wt/vol: 2.4 (g/mL) G

Lab File ID: C77534V

Level: (low/med) LOW

Date Received: 11/19/87

% Moisture: not dec.15

Date Analyzed: 11/20/87

Column: (pack/cap) PACK

Dilution Factor: 1

Number TICs found: 0

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CM705

Lab Name: AQUATEC, INC.

Contract: 68-01-7426

Lab Code: AQUAI

Case No.: 8534

SAS No.: \_\_\_\_\_

SDG No.: CM700

Matrix: (soil/water)SOIL

Lab Sample ID: \_\_\_\_\_

Sample wt/vol: 2.6 (g/mL) G

Lab File ID: C77535V

Level: (low/med) LOW

Date Received: 11/19/87

% Moisture: not dec.14

Date Analyzed: 11/20/87

Column: (pack/cap) PACK

Dilution Factor: 1

Number TICs found: 0

CONCENTRATION UNITS:  
(ug/L or ug/Kg)UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CM706

Name: AQUATEC, INC.

Contract: 68-01-7426

Lab Code: AQUAI

Case No.: 8534

SAS No.: \_\_\_\_\_

SDG No.: CM700

Matrix: (soil/water)SOIL

Lab Sample ID: \_\_\_\_\_

Sample wt/vol: 2.8 (g/mL) G

Lab File ID: C77536V

Level: (low/med) LOW

Date Received: 11/19/87

% Moisture: not dec.10

Date Analyzed: 11/20/87

Column: (pack/cap) PACK

Dilution Factor: 1

Number TICs found: 0

CONCENTRATION UNITS:  
(ug/L or ug/Kg)UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
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28.				
29.				
30.				

**APPENDIX C**

**DPO REPORT**

AR 301041

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK

Lab Name: AQUATEC, INC.

Contract: 68-01-7426

Lab Code: AQUAI

Case No.: 8534

SAS No.: \_\_\_\_\_

SDG No.: CM700

Matrix: (soil/water)SOIL

Lab Sample ID: \_\_\_\_\_

Sample wt/vol: 5 (g/mL) G

Lab File ID: CQB001BV

Level: (low/med) LOW

Date Received: 00/00/00

% Moisture: not dec. 0

Date Analyzed: 11/20/87

Column: (pack/cap) PACK

Dilution Factor: 1.0000

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg)UG/KG Q

74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	4	J
67-64-1	Acetone	5	J
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	2	J
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

Date Review Completed 6/3/88  
 Case No. 8534 SAS No. \_\_\_\_\_  
 Site Name Bally  
 Sample Nos CM700 - CM706

Contract Lab. Aquatic  
 Contract No. 68-01-7426  
 Lab DPO D. SZARO  
 Reviewer D. SCHEIB NUS/PGH  
 from Region III Phone (412) 788-1080  
 FTS

MATRIX	CONCENTRATION			MATRIX RELATED COMMENTS
	low	med	high	
soil/solid	7			
aqueous				
other				

VOLATILES	OK	FYI	ACTION	COMMENTS
GC/MS tuning--BFB	✓			
Initial Calibration	✓			
Continuing Calibration		✓		some compounds > 25% R
Surrogate Recovery	✓			
Matrix Spikes	✓			
Reagent Blanks		✓		some contaminants
Holding times	✓			

SEMI-VOLATILES	OK	FYI	ACTION	COMMENTS
GC/MS tuning--DFTPP				
Initial Calibration				
Continuing Calibration				N
Surrogate Recovery				
Matrix Spikes				A
Reagent Blanks				
Holding times				

PESTICIDES	OK	FYI	ACTION	COMMENTS
Instrument Performance				
Initial Calibration				
Continuing Calibration				N
Surrogate Recovery				
Matrix Spikes				A
Reagent Blanks				
Holding times				

OVERALL CASE	OK	FYI	ACTION	COMMENTS
Compound Identification	✓			
Data Completeness	✓			

REVIEWER'S COMMENTS:

201043

**APPENDIX D**  
**SUPPORT DOCUMENTATION**

801044  
AR301044

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK

Lab Name: AQUATEC, INC.

Contract: 68-01-7426

Lab Code: AQUAI

Case No.: 8534

SAS No.: \_\_\_\_\_

SDG No.: CM700

Matrix: (soil/water)SOIL

Lab Sample ID: \_\_\_\_\_

Sample wt/vol: 5 (g/mL) G

Lab File ID: CQB001AV

Level: (low/med) LOW

Date Received: 00/00/00

% Moisture: not dec. 0

Date Analyzed: 11/19/87

Column: (pack/cap) PACK

Dilution Factor: 1.0000

CONCENTRATION UNITS:  
(ug/L or ug/Kg)UG/KG Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)UG/KG	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	2	J
67-64-1	-----Acetone	7	J
75-15-0	-----Carbon Disulfide	5	U
75-35-4	-----1,1-Dichloroethene	5	U
75-34-3	-----1,1-Dichloroethane	5	U
540-59-0	-----1,2-Dichloroethene (total)	5	U
67-66-3	-----Chloroform	5	U
107-06-2	-----1,2-Dichloroethane	5	U
78-93-3	-----2-Butanone	3	J
71-55-6	-----1,1,1-Trichloroethane	5	U
56-23-5	-----Carbon Tetrachloride	5	U
108-05-4	-----Vinyl Acetate	10	U
75-27-4	-----Bromodichloromethane	5	U
78-87-5	-----1,2-Dichloropropane	5	U
10061-01-5	-----cis-1,3-Dichloropropene	5	U
79-01-6	-----Trichloroethene	5	U
124-48-1	-----Dibromochloromethane	5	U
79-00-5	-----1,1,2-Trichloroethane	5	U
71-43-2	-----Benzene	5	U
10061-02-6	-----trans-1,3-Dichloropropene	5	U
75-25-2	-----Bromoform	5	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	5	U
79-34-5	-----1,1,2,2-Tetrachloroethane	5	U
108-88-3	-----Toluene	5	U
108-90-7	-----Chlorobenzene	5	U
100-41-4	-----Ethylbenzene	5	U
100-42-5	-----Styrene	5	U
1330-20-7	-----Xylene (total)	5	U



7A  
VOLATILE CONTINUING CALIBRATION CHECK

Name: AQUATEC, INC.

Contract: 68-01-7426

Lab Code: AQUAI Case No.: 8534 SAS No.: \_\_\_\_\_ SDG No.: CM700

Instrument ID: OWA C Calibration Date: 11/20/87 Time: 0947

Lab File ID: CO050BHV Init. Calib. Date(s): 11/19/87 11/19/87

Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) PACK

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(\*) = 25.0%

COMPOUND	RRF	RRF50	%D
Chloromethane	#1.738	2.298	32.2 #
Bromomethane	2.357	1.945	17.5
Vinyl Chloride	*2.431	2.519	3.6 *
Chloroethane	1.324	1.642	24.0
Methylene Chloride	2.682	3.532	31.7
Acetone	.533	.735	37.9
Carbon Disulfide	3.391	3.688	8.8
1,1-Dichloroethene	*1.283	1.527	19.0 *
1,1-Dichloroethane	#3.829	4.058	6.0 #
1,2-Dichloroethene (total)	1.440	1.704	18.3
Chloroform	*3.929	3.989	1.5 *
1,2-Dichloroethane	3.769	4.067	7.9
2-Butanone	.122	.110	9.7
1,1,1-Trichloroethane	.376	.375	.4
Carbon Tetrachloride	.388	.345	10.9
Vinyl Acetate	1.187	1.227	3.3
Bromodichloromethane	.649	.553	14.8
1,2-Dichloropropane	*.537	.512	4.7 *
cis-1,3-Dichloropropene	.563	.509	9.5
Trichloroethene	.465	.407	12.4
Dibromochloromethane	.692	.486	29.7
1,1,2-Trichloroethane	.439	.400	9.0
Benzene	1.167	1.174	.6
trans-1,3-Dichloropropene	.596	.497	16.5
Bromoform	#.559	.388	30.6 #
4-Methyl-2-Pentanone	1.510	1.365	9.6
2-Hexanone	1.430	1.376	3.8
Tetrachloroethene	.748	.653	12.7
1,1,2,2-Tetrachloroethane	#1.315	1.109	15.7 #
Toluene	*.903	.845	6.4 *
Chlorobenzene	#1.125	1.052	6.5
Ethylbenzene	*.587	.519	11.6 *
Styrene	1.275	1.084	14.9
Xylene (total)	.729	.681	6.7
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Toluene-d8	1.357	1.325	2.3
Bromofluorobenzene	1.047	1.045	.1
1,2-Dichloroethane-d4	3.083	3.502	13.6

CM702  
CM705  
CM706